

TECHNICAL DATA SHEET

BITUMEN — PENETRATION GRADE 60/70

Manufactured and Supplied to ASTM D946 / AASHTO M20

1. Product Identification

Product Name	Bitumen, Penetration Grade 60/70
Chemical Family	Petroleum Bitumen (Asphalt Cement) — a complex, high-molecular-weight hydrocarbon residue from the atmospheric and vacuum distillation of crude petroleum
CAS Number	8052-42-4 (Bitumen / Asphalt, petroleum)
EINECS / EC Number	232-490-9
Applicable Standard	ASTM D946 / AASHTO M20, Penetration Grade 60-70
Country of Origin	Republic of Türkiye
Manufacturer / Supplier	ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ
Registered Address	Huzur Mahallesi, Azerbaycan Caddesi, Skyland İstanbul 4 B Blok, 27. Kat, Daire 389-390-391, Sarıyer, İstanbul, Republic of Türkiye

2. Product Description

Bitumen Penetration Grade 60/70 is a viscoelastic, semi-solid petroleum-derived binder produced by the controlled atmospheric and vacuum distillation of selected crude petroleum feedstocks, followed by precision blending to achieve consistent penetration, softening point and rheological performance within the limits of ASTM D946 / AASHTO M20. The product is homogeneous, free of visible water and mechanical impurities, and exhibits excellent adhesion to mineral aggregate, weathering resistance and long-term durability under repeated thermal and mechanical loading. Each production batch is manufactured under a documented quality management system and independently verified prior to shipment.

3. Applications

- Hot-mix asphalt (HMA) production for road, highway and airport pavement construction
- Surface dressing and chip-seal applications
- Base course and binder course paving mixtures
- General road maintenance, resurfacing and patching works
- Feedstock for the production of polymer-modified and cutback bitumens (subject to compatibility testing)

4. Technical Specification

The product is manufactured and tested to conform to the following specification limits under ASTM D946 / AASHTO M20. Certificates of Analysis issued by an independent inspection body accompany every shipment.

Property	Unit	Specification Limit	Test Method
Specific Gravity at 25 °C	—	1.01 – 1.06	ASTM D70
Penetration at 25 °C, 100 g, 5 s	0.1 mm	60 – 70	ASTM D5
Softening Point (Ring & Ball)	°C	49 – 56	ASTM D36
Ductility at 25 °C, 5 cm/min	cm	100 min.	ASTM D113
Flash Point (Cleveland Open Cup)	°C	232 min.	ASTM D92
Solubility in Trichloroethylene	% (m/m)	99.0 min.	ASTM D2042
Loss on Heating	% (m/m)	0.2 max.	ASTM D6
Drop in Penetration after Heating	%	20 max.	ASTM D5 / D6



Spot Test
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Negative

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5. Appearance and Physical Form

Physical State (at 25 °C)	Solid to semi-solid, black to dark brown
Physical State (heated)	Viscous liquid above approximately 100 °C
Odour	Characteristic bituminous / hydrocarbon odour
Softening Point (R&B)	49 – 56 °C
Flash Point (COC)	≥ 232 °C (COC)
Solubility in Water	Insoluble
Solubility in Organic Solvents	Soluble in aromatic and chlorinated hydrocarbon solvents (e.g. xylene, trichloroethylene)

6. Packaging Options

- New steel drums, 180 kg net weight each, cold-filled, sealed and lidded, free from leakage — standard for containerised export shipments
- Bulk shipment in insulated, heated tank containers ("bitutainers") for direct discharge at destination, subject to buyer's receiving facility
- Bulk shipment by dedicated asphalt/bitumen tanker vessel for large-volume programmes, subject to separate agreement

Each drum is marked with product grade, net weight, batch number, date of production, country of origin and the appropriate hazard and handling markings in accordance with this document and the accompanying Safety Data Sheet.

7. Handling and Application Temperatures

Recommended Storage Temperature	150 – 165 °C
Recommended Transport / Discharge Temperature	140 – 160 °C
Recommended Application (Paving) Temperature	150 – 175 °C (paving); up to 180 °C (max., short duration only)
Absolute Maximum Heating Temperature	180 °C — never to be exceeded

Overheating beyond the maximum stated temperature may cause irreversible degradation of the binder (hardening, loss of ductility, increased fume emission) and shall be strictly avoided. Product should never be heated by direct, unshielded flame impingement on the container wall.

8. Storage and Shelf Life

When stored in original, sealed, undamaged packaging under normal ambient conditions, sheltered from direct rainwater ingress, the product has no defined expiry date and its specification properties remain stable over standard trading and construction-project timeframes. Bulk heated storage tanks should be maintained within the temperature range stated in Section 7 and fitted with adequate temperature control, agitation (where applicable) and venting. Prolonged storage at elevated temperature accelerates oxidative hardening and should be minimised.

9. Loading Port and Logistics

Standard port of loading: Mersin, Republic of Türkiye. Shipment is arranged FCL in 20ft/40ft containers for drummed product, or by dedicated bulk carrier / tank container for bulk programmes, at the Seller's option consistent with the agreed Incoterm. Vessel and container line particulars, together with the container/seal list, are issued to the Buyer in advance of departure.



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10. Quality Assurance and Inspection

- Each production batch is sampled and tested in the Seller's quality control laboratory prior to release for shipment
- Independent pre-shipment inspection is available through internationally recognised bodies — SGS, Bureau Veritas or Intertek — at the Buyer's request and cost, unless otherwise agreed in the governing Sales and Purchase Agreement
- A Certificate of Quality / Certificate of Analysis, referencing the batch number and the specification limits set out in Section 4, is issued for every shipment
- Representative retained samples are held by the Seller for a reasonable period following shipment to support any quality investigation

11. Documentation Accompanying Each Shipment

- Commercial Invoice and Packing List
- Certificate of Origin (Republic of Türkiye), issued by the competent Chamber of Commerce
- Certificate of Quality / Certificate of Analysis
- Bill of Lading / transport document
- Safety Data Sheet (companion document to this Technical Data Sheet)
- Insurance certificate, where applicable under the agreed Incoterm

12. Health, Safety and Environment

Bitumen is a thermal-burn and inhalation hazard when handled hot, and precautions for storage, handling and personal protective equipment must be observed at all times. Full hazard identification, first-aid, fire-fighting, handling, exposure-control and transport information is provided in the companion Safety Data Sheet, document ATB-SDS-BIT-6070-TR-2026-002, which forms an integral part of the technical documentation package for this product and should be consulted by all personnel and logistics providers prior to loading, transport, discharge or use.

13. Sanctions Compliance (OFAC / EU / UK / UN)

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its international trading activities in full compliance with applicable economic and trade sanctions laws and regulations, including, without limitation, those administered and enforced by the United States Department of the Treasury's Office of Foreign Assets Control (OFAC), the European Union, the United Kingdom (HM Treasury / OFSI) and the United Nations Security Council. ATABAŞ does not work with sanctioned countries, and does not engage, directly or indirectly, in any transaction involving sanctioned companies, entities, individuals, vessels or financial institutions. The product supplied under this document is of Republic of Türkiye origin, is loaded from the Port of Mersin, Republic of Türkiye, and its supply chain, carriage and settlement are screened against the applicable sanctions lists prior to each shipment.

14. Disclaimer

The information contained in this Technical Data Sheet is provided in good faith and reflects the Seller's current knowledge and testing of the product at the date of issue. It is intended as a general guide to the properties and appropriate handling of the product and does not constitute a guarantee of specific performance in any particular application, nor does it relieve the Buyer of the responsibility to satisfy itself, through its own testing and professional judgement, that the product is suitable for its intended use. Specification limits stated herein are those contracted under the applicable Sales and Purchase Agreement and shall prevail over this document in the event of any conflict. This document does not constitute part of a contractual offer unless expressly incorporated by reference into a signed agreement between the Seller and the Buyer.

Issued by:

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